

Claims

1. A method for a computer-supported vehicle reservation system in which a user (10) identifies himself at an identification module, the identification module checks the identification with a central unit (30), and, with successful identification of the user, the vehicle (52/53/54) is cleared for use via an onboard system (55) of the vehicle (52/53/54), characterised

in that the central unit (30) registers all vehicles (52/53/54) of the vehicle reservation system, and stores, assigned to the vehicles, in a database (31) temporal and/or local availability of the individual vehicles (52/53/54),

10 in that the user (10) identifies himself at the central unit (30) via the input elements of a computing unit (20) connected to the central unit (30), and reserves a vehicle (52/53/54) for a definable time and/or time span and/or location, which vehicle (52/53/54) is indicated by the central unit (30) as available for the definable time and/or time span and/or location,

15 in that an SMS module (33) of the central unit (30) transmits an identification code (411) to a mobile radio device (40) of the user (10) by means of an SMS (41) over a mobile radio network (61), and

20 in that a reply SMS from the user (10), comprising at least the identification code (411), is sent back by the mobile radio device (40) over the mobile radio network (61) to the central unit (30) as a confirmation, by means of which reply SMS the user is identified by the identification module, and by means of which central unit (30) the vehicle (52/53/54) is cleared for use for the defined time and/or time span and/or location.

2. The method according to claim 1, characterised in that the central unit (30) checks via the onboard system (55) of the vehicle (52/53/54) the operational condition of the vehicle (52/53/54) by means of SMS before clearance for use.

3. The method according to one of the claims 1 or 2, characterised in that the SMS module (33) of the central unit (30) transmits the identification code (411) by means of the SMS (41) to the mobile radio device (40) of the user (10) within a predetermined time span before beginning of the desired use.

5 4. The method according to any one of claims 1 to 3, characterised in that the central unit (30) transmits to the user (10) a confirmation of the reservation on the computing unit (20).

5. The method according to any one of claims 1 to 4, characterised in that the onboard system (55) checks the operational condition of the vehicle (52/53/54) periodically and/or upon request of the central unit (30), the data of the database (31) of the central unit (30) being updated.

6. The method according to any one of claims 1 to 5, characterised in that billing data are computed by means of a billing module (34) of the central unit (30), and are transmitted from the central unit (30, 34) to a service provider (70) of a mobile radio network (63) by means of a communication module of the central unit (30), which billing data include cost parameters for calculating cost amounts for the service procured by the user (10) through the leased vehicle (54).

7. The method according to one of the claims 1 to 6, characterised in that the SMS (41) further comprises vehicle designation (412) and/or location (412) and/or time (412) and/or time span (412).

8. The method according to any one of claims 1 to 7, characterised in that the vehicle (54) is parked in an access-controlled area, the user (10) identifying himself at an identification module of the access-controlled area upon entering the access-controlled area by means of the identification code (411).

9. The method according to any one of claims 1 to 8, characterised in that used as computing unit (20) is the mobile radio device (40).

10. The method according to any one of claims 1 to 9, characterised in that the computing unit (20) communicates with the central unit (30) via one or more computer networks (62).

11. The method according to claim 10, characterised in that one or more computer networks (62) include the Internet.

12. The method according to one of the claims 10 or 11, characterised in that the user indicates the MSISDN of the mobile radio device (10) for identification at the central unit (30).

13.-The method according to any one of claims 1 to 12, characterised in that the central unit (30) comprises a parking space administration module (35) and a parking space reservation module (36), whereby during the reservation of the vehicle indications about a destination being transmitted to the central unit (30) by means of the computing unit (20) and/or the SMS (41) contains indications (413) about a reserved parking space at the destination.

14. A computer-supported vehicle registration system, which comprises identification modules for identification of a user (10) at a central unit (30), in each case an identification module being assigned to a vehicle (52/53/54) and, with successful identification, the vehicle being clearable by the central unit (30) for use via an onboard system (55) of the vehicle (52/53/54), characterised

in that the central unit (30) comprises a memory module (31), by means of which all vehicles (52/53/54) of the vehicle reservation system are able to be registered, and temporal and/or local availability of the individual vehicles (52/53/54) is storable, assigned to the vehicles (52/53/54),

in that the central unit comprises an SMS module (33) for transmitting an identification code (411) by means of an SMS (41) to a mobile radio device (40) of the user (10) via a mobile radio network (61),

in that the system comprises a computing unit (20) with communication means for ordering and/or reserving a vehicle (52/53/54) for a definable time and/or time span and/or location, the vehicle (52/53/54) being indicated by the central unit (30) as available at the definable time and/or time span and/or
5 location,

in the that user (10) is identifiable by the identification module by means of an SMS of the mobile radio device (40), which comprises at least the identification code (411), and the vehicle is clearable by the central unit (30) for use at the defined time and/or time span and/or location via the onboard system
10 (55) of the vehicle (52/53/54).

15. The computer-supported vehicle registration system according to claim 14, characterised in that the central unit (30) comprises a billing module (34) by means of which billing data are transmittable from the central unit (30, 34) to a service provider (70) of a mobile radio network (63), and which billing
15 data include cost parameters, based on which cost amounts are calculable for the service procured by the user through the leased vehicle (54).

16. The computer-supported vehicle registration system according to one of the claims 14 or 15, characterised in that the SMS (41) further comprises vehicle designation (412) and/or location (412) and/or time (412) and/or time
20 span (412).

17. The computer-supported vehicle registration system according to any one of claims 14 to 16, characterised in that the system comprises access-controlled areas for parking of the available vehicles (52/53/54), the access-controlled area being accessible to the user (10) by means of the identification
25 code (411).

18. The computer-supported vehicle registration system according to any one of claims 14 to 17, characterised in that the mobile radio device (40) also comprises the computing unit (20).

19. The computer-supported vehicle registration system according to any one of claims 14 to 18, characterised in that the system comprises one or more computer networks (62), which connect the computing unit (20) to the central unit (30).

20. The computer-supported vehicle registration system according to claim 19, characterised in that the computer network comprises the Internet.

21. The computer-supported vehicle registration system according to one of the claims 19 or 20, characterised in that the identification of the user at the central unit (30) comprises the MSISDN of the mobile radio device (10).

22. A method for a computer-supported vehicle capacity reservation system in which a user (10) identifies himself at an identification module, the identification module checks the identification with a central unit (30), and, with successful identification of the user (10), a capacity unit is cleared for use via the vehicle capacity reservation system, characterised

in that the central unit (30) registers all capacity units of the vehicle capacity reservation system and stores, assignable to a vehicle of the user (10), in a database (31) temporal and/or local availability of the capacity units,

in that the user (10) identifies himself at the central unit (30) via the input elements of a computing unit (20) connected to the central unit (30), and reserves at least one capacity unit for a definable time and/or time span and/or location, which at least one capacity unit is indicated by the central unit (30) as available for the definable time and/or time span and/or location,

in that an SMS module (33) of the central unit (30) transmits an identification code (411) to a mobile radio device (40) of the user (10) by means of an SMS (41) over a mobile radio network (61), and

in that a reply SMS from the user (10), comprising at least the identification code (411), is sent back by the mobile radio device (40) over the mobile radio network (61) to the central unit (30) as a confirmation, by means of

which reply SMS the user is identified by the identification module, and by means of which central unit (30) the at least one capacity unit is cleared for use for the defined time and/or time span and/or location.

23. The method according to claim 22, characterised in that the SMS module (33) of the central unit (30) transmits the identification code (411) by means of the SMS (41) to the mobile radio device (40) of the user (10) within a predetermined time span before beginning of the desired use.

24. The method according to claims 22 or 23, characterised in that the central unit (30) transmits to the user (10) a confirmation of the reservation on the computing unit (20).

25. The method according to any one of claims 22 to 24, characterised in that billing data are computed by means of a billing module (34) of the central unit (30), and are transmitted from the central unit (30, 34) to a service provider (70) of a mobile radio network (63) by means of a communication module of the central unit (30), which billing data include cost parameters for calculating cost amounts for the service procured by the user (10) through the used capacity.

26. The method according to one of the claims 22 to 25, characterised in that the SMS (41) further comprises capacity designation (412) and/or location (412) and/or time (412) and/or time span (412).

27. The method according to any one of claims 22 to 26, characterised in that the at least one capacity unit is accessible or usable in an access-controlled area, the user (10) identifying himself at an identification module of the access-controlled area upon entering the access-controlled area by means of the identification code (411).

28. The method according to any one of claims 22 to 27, characterised in that the mobile radio device (40) is used as a computing unit (20).

29. The method according to any one of claims 22 to 28, characterised in that the computing unit (20) communicates with the central unit (30) via one or more computer networks (62).

30. The method according to claim 29, characterised in that the one or more computer networks (62) include the Internet.

31. The method according to claim 29, characterised in that the one or more computer networks (62) include a mobile radio network and that the computing unit (20) communicates with the central unit (30) by means of SMS and/or WAP.

32. The method according to one of the claims 29 or 31, characterised in that the user indicates the MSISDN of the mobile radio device (10) for identification at the central unit (30).

33. A computer-supported vehicle capacity reservation system, which comprises identification modules for identification of a user (10) at a central unit (30), a capacity unit being clearable to the user (10) for use by the central unit (30) with successful identification via the vehicle capacity reservation system, characterised

in that the central unit (30) comprises a memory module (31), by means of which all capacity units of the vehicle capacity reservation system are able to be registered, and temporal and/or local availability of the individual capacity units is storable, assigned to a vehicle of the user (10),

in that the central unit comprises an SMS module (33) for transmitting an identification code (411) by means of an SMS (41) to a mobile radio device (40) of the user (10) via a mobile radio network (61),

in that the system comprises a computing unit (20) with communication means for ordering and/or reserving at least one capacity unit for a definable time and/or time span and/or location, said at least one capacity unit being

indicated by the central unit (30) as available at the definable time and/or time span and/or location,

in the that user (10) is identifiable by the identification module by means of an SMS of the mobile radio device (40), which comprises at least the identification code (411), and the at least one capacity unit is clearable by the central unit (30) for use at the defined time and/or time span and/or location via a clearance system.

34. The computer-supported vehicle capacity reservation system according to claim 33, characterised in that the central unit (30) comprises a billing module (34) by means of which billing data are transmittable from the central unit (30, 34) to a service provider (70) of a mobile radio network (63), and which billing data include cost parameters, based on which cost amounts are calculable for the service procured by the user through the at least one capacity unit.

35. The computer-supported vehicle capacity reservation system according to one of the claims 33 or 34, characterised in that the SMS (41) further comprises capacity designation (412) and/or location (412) and/or time (412) and/or time span (412).

36. The computer-supported vehicle capacity reservation system according to any one of claims 33 to 35, characterised in that the system comprises access-controlled areas for parking of the available vehicles (52/53/54), the access-controlled area being accessible to the user (10) by means of the identification code (411).

37. The computer-supported vehicle capacity reservation system according to any one of claims 33 to 36, characterised in that the mobile radio device (40) also comprises the computing unit (20).

38. The computer-supported vehicle capacity reservation system according to any one of claims 33 to 37, characterised in that the system

comprises one or more computer networks (62), which connect the computing unit (20) to the central unit (30).

39. The computer-supported vehicle capacity reservation system according to claim 38, characterised in that the computer network comprises the Internet.

40. The computer-supported vehicle capacity reservation system according to claim 38, characterised in that the one or more computer networks (62) include a mobile radio network and that the computing unit (20) and the central unit (30) comprise an SMS module and/or a WAP module.

41. The computer-supported vehicle capacity reservation system according to any one of the claims 38 to 40, characterised in that the identification of the user at the central unit (30) comprises the MSISDN of the mobile radio device (10).